

THE USER-GUIDE FOR
ELECTRONIC DATA INTERCHANGE
WITH

Logaritme, A.I.E.
Institut Català de la Salut
(Catalan Institute of Health)

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CONTENTS

1. Intention of this guide	3
2. How to get started?.....	4
3. Communications	5
4. Messages.....	6
5. Global Location Numbers (GLN) and Logistical Structure	7
6. ORDERS (Purchase Order Message) sent from Logaritme to the supplier	9
6.1 ORDERS D.96A.....	9
6.2 ORDERS Message Structure	11
6.3 Examples of an ORDERS message	17
7 ORDRSP (Purchase Order Response Message) sent from the supplier to Logaritme.....	20
7.1 ORDRSP D.96A.....	20
7.2 ORDRSP Message Structure	24
7.3 Examples of an ORDRSP message	30
8 DESADV (Dispatch Advice Message) sent from the Supplier to Logaritme.....	32
8.1 DESADV D.96A.....	32
8.2 DESADV Message Structure	34
8.3 Example of DESADV message.....	38
9 RECADV (Receiving Advice Message) sent from Logaritme to the Supplier	40
9.1 RECADV D.96A.....	40
9.2 RECADV Message Structure	42
9.3 Example of RECADV message.....	47
10 INVOIC (invoice document) sent by supplier to ICS	49
10.1 INVOIC D.93A	49
10.2 INVOIC message structure	52
10.3 Example of INVOIC message	63
11 APERAK (application error and acknowledgement message) sent by ICS to supplier	65
11.1 APERAK D.01B	65
11.2 APERAK message structure	67
11.3 Example of APERAK message.....	70
12 Document versions.....	71

1. Intention of this guide

The objective of this guide is to provide companies with all the necessary information to efficiently interchange commercial documents through an EDI format with Logaritme, AIE.

So that the above mentioned exchange proceeds efficiently, we consider it to be essential that all of the implicated departments of your organization know the content of this user-guide, especially those departments involved in the area of informatics.

Current EDI users will find this guide useful for adapting their systems to the requirements of Logaritme, AIE, as much in regard to communications as to the structure of messages.

For new EDI users, this guide will provide information that will assist you with getting started.

For any inquiries in relation to the content of this guide and/or the start-up of the EDI project, please contact Logaritme, AIE or our EDI provider, eDiversa.

Logaritme, AIE's Contact Information

For management inquiries

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eDiversa's Contact Information

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ICS Contact information

For e-invoicing inquiries

e-mail: jjcrespo@gencat.cat

2. How to get started?

Current EDI users should share the content of this user-guide with their EDI services supplier to ensure that their systems are properly adapted to the requirements of Logaritme, AIE.

New users will have to provide us with certain information relevant to the EDI system. You can do this by completing the form in the following link:

<http://www.ediversa.com/clientes>

If your company still does not have an EDI system in place, please keep this information until you get started.

Please bear in mind that our sector uses the EDI system in accordance with the regulation and recommendations of GS1 (formerly, EAN International). The above mentioned recommendations stipulate that EAN codes are the sole system-identifier of all products and their implicated parts during the interchange of documents via EDI. Companies that do not support EAN coding should contact AECOC (The Spanish Association of Commercial Codification, representative of Spain's GS1) to initiate its acquisition.

3. Communications

Logaritme, AIE provides a GLN identifier for EDI and a mailbox within the eDiversa network.

Head GLN: 8431299900009

EDI Network: eDiversa

X-400 address

C	ES
ADMD	400NET
PRMD	EDIVERSA
O	X400
S	X400
G	CCED

Electronic invoices for ICS must be sent through one of the available PGEF (GeFACT or FACe).

4. Messages

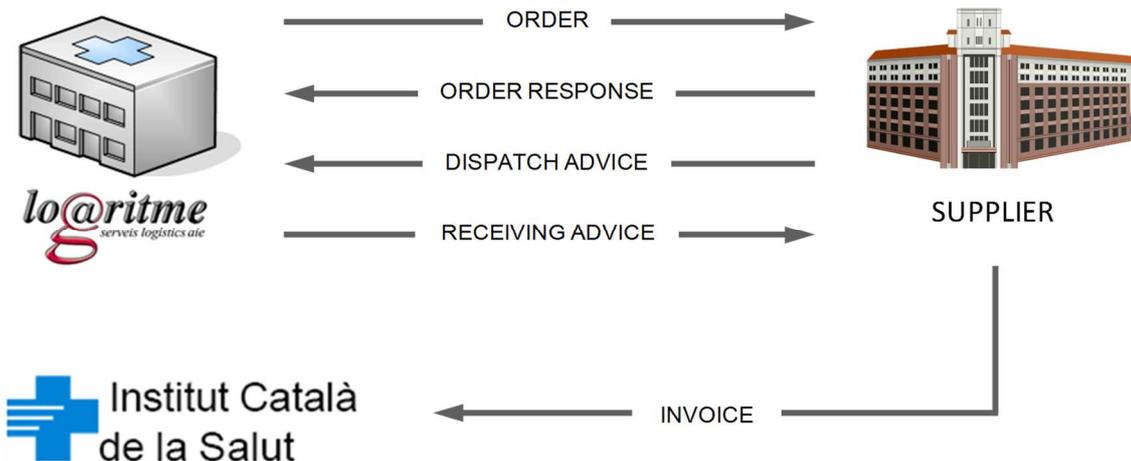
This user-guide has been designed to accompany the AECOC Health Sector User-Guide. It provides information that Logaritme will include in the messages sent (purchase order and receiving advice messages), as well as other information that Logaritme will take into consideration when reading messages received (purchase order response and dispatch advice messages). In regards to messages received, take note that any data not covered inside this guide will never provoke the rejection of any messages; nevertheless, such data will be ignored.

Logaritme, AIE will interchange these document types:

Document type	Meaning	From	To
ORDERS D.96A UN EAN008	Purchase Orde	Logaritme	Supplier
ORDRSP D.96A UN EAN005	Purchase Order Response	Supplier	Logaritme
DESADV D.96A UN EAN005	Dispatch Advice Message	Supplier	Logaritme
RECADV D.96A UN EAN003	Receiving Advice Message	Logaritme	Supplier

ICS will interchange this document type:

Document type	Meaning	From	To
INVOIC D.93A UN EAN007	Invoice Message	Supplier	ICS



5. Global Location Numbers (GLN) and Logistical Structure

Logaritme Serveis Logístics, A.I.E.

Main GLN (mailbox): 8431299900009

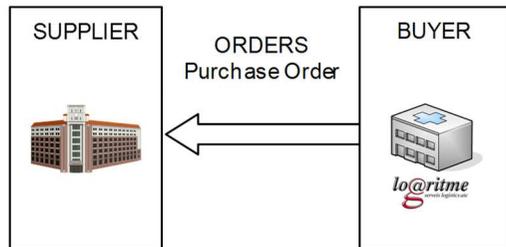
EDI Network: eDiversa

Centre	GLN	Address	City	Province	P.C.	NIF
Logaritme	8431299000006	Molí d'enGuineu, 18-22; Poligon Industrial Molí del Racò	Sant Sadurní d'Anoia	Barcelona	08770	G62736970
Hospital Vall d'Hebron	8431299100003	AvdaVall d'Hebron 119-129	Barcelona	Barcelona	08035	Q5855029D
Hospital Joan XXIII	8431299400004	Dr. Mallafré i Guasch, 4	Tarragona	Tarragona	43007	Q5855029D
Almacén Hospital Juan XXIII	8431299000013	Dr. Mallafré i Guasch, 4.	Tarragona	Tarragona	43007	Q5855029D
Hospital Pere Virgili	8431299110002	Ca l'alegre s/n	Barcelona	Barcelona	08023	Q5855029D
Hospital Arnau de Vilanova	8431299200000	Avda. Alcalde Rovira Roura 8	Lleida	Lleida	25198	Q5855029D
Hospital Germans Trias i Pujol	8431299300007	Carretera de Canyet s/n	Badalona	Barcelona	08916	Q5855029D
Banc de Sang i Teixits	8431299500001	Edifici Dr. Frederic Duran i Jordà. Passeig Taulat, 116	Barcelona	Barcelona	08005	Q5856387E
ICS (Unitat de tramitació)	8431299600008	Pg Vall d'Hebron 119-129 (Esc.infermeria 6 plta)	Barcelona	Barcelona	08035	Q5855029D
Can Bou, Castelldefels At.Primaria (CASAP)	8431299800002	Avgda Malaga 18-20	Castelldefels	Barcelona	08860	Q0801353D
Mag. Hospital Doctor Josep Trueta	8431299130000	Carretera de Franca s/n	Girona	Girona	17007	
Magatzem Arnau de Vilanova	8431299140009	Av. Alcalde Rovira Roure, 80	Lleida	Lleida	25198	
Magatzem Sant Sadurní d'Anoia	8431299000020	Molí d'en Guineu, 18-22; Poligon Industrial Molí del Racò	Sant Sadurní d'Anoia	Barcelona	08770	
Magatzem Hospital Vall d'Hebron (manteniment)	8431299000037	Passeig de la Vall d'Hebron S/N (Bloc Mat. Inf (-3))	Barcelona	Barcelona	08035	
Hospital Verge de la Cinta	8431299000044	C/ de les Esplanetes, 14	Tortosa	Tarragona	43500	

Centre	GLN	Address	City	Province	P.C.	NIF
Agrupació Europea De Cooperació Territorial - Hospital de Cerdanya	8431299900092	Cami d'Ur, num.31	Puigcerdà	Girona	17520	V55096580
Institut de Diagnòstic per la Imatge	8431299900108	C/Esteve Terradas 30, Parc Sanitari Pere Virgili. Edifici Mestral 2ª planta.	Barcelona	Barcelona	08023	Q5856249G
Mag. APQ Logaritme (Coral Stocks)	8431299900115	Pol. Industrial Fondos de l'Estació, c/Garraf - Parcela 2, nº 2A/2B	La Granada del Penedès	Barcelona	08790	

6. ORDERS (Purchase Order Message) sent from Logaritme to the supplier

6.1 ORDERS D.96A



Scenario for purchase order messages

The message ORDERS gives details about the goods or services ordered in accordance to previous agreements between Logaritme and the supplier. It also specifies quantities, dates, recipient destination points, prices, and total monetary costs. A purchase order is issued for every delivery destination point.

Logaritme uses EANCOM's purchase orders to indicate services or a specific criterion which applies to each order. Every order function has a corresponding code. Out of all the scenarios covered within the AECOC Health Sector user-guide, Logaritme will use only those listed below:

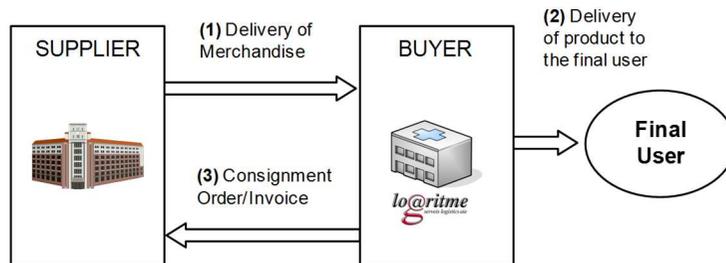
1. **Call-Off Order** (cancels a blanket order, from BGM segment DE 1001 with code 226).
2. **Consignment Order** (from BGM segment DE 1001 with code 227).

Call-Off Order

A call-off order is sent by a buyer who has previously sent a blanket order (in this case it refers to the contract) to inform the supplier of the requirements to a specific delivery of goods and/or services - quantities, locations, and specified dates. In a call-off order, the buyer will include a

reference number to a blanket order. A buyer is able to issue various call-off orders for each blanket-order that is sent. The purchase order message code 226 indicates that a call-off order message in relation to a previous blanket-order has been sent.

Consignment Order



Scenario for consignment order messages

Steps taken in the scenario described above:

1. The supplier delivers the goods in consignment to the health establishment. These goods are delivered but are not invoiced.
2. The health establishment that receives the goods in consignment delivers the goods to the final user.
3. The health establishment issues a purchasing order using the BGM segment code 227 from element DE 1001 to indicate the type of consignment in transfer from ALI segment DE 4183; however if the consignment order is “to invoice and replace,” the segment ALI is not used.

6.2 ORDERS Message Structure

	Elements	Status	Description	Code Values	Examples
HEADER SECTION	1 UNH – Message Header				
	0062	Mandatory	Message reference number [generated by sender]		12345
	S009-0065	Mandatory	Message type Identifier	ORDERS	ORDERS
	S009-0052	Mandatory	Message type version number	D	D
	S009-0054	Mandatory	Message type release number	96A	96A
	S009-0051	Mandatory	Controlling agency	UN	UN
	S009-0057	Mandatory	Association assigned code	EAN008	EAN008
	Segment required with all cases Example: UNH+12345+ORDERS:D:96A:UN:EAN008'				
	2 BGM – Document number				
	C002-1001	Mandatory	Document type	226 = call-off order (call-off order cancels blanket order) 227 = consignment order (prosthesis)	226
	1004	Mandatory	Document/message number (generated by sender)		123
	C002-1225	Conditional	Document/message function	9 = Original	9
	Segment required in all cases . Example: BGM+226+123+9'				
	3 DTM - Date				
	C507-2005	Mandatory	Date qualifier	137 = Document date 64 = Delivery date/time, earliest 63 = Delivery date/time, latest	137
	C507-2380	Mandatory	Date		20090301
	C507-2379	Mandatory	Date format qualifier	102 =CCYYMMDD 203= CCYYMMDDHHMM	102
	This segment is repeated three times, to date the order and inform the scheduled delivery time (init/final time). Example: DTM+137:20170301:102'				

HEADER SECTION	5 ALI – Additional Information				
	4183	Mandatory	Special Conditions, codified	81E = Invoiced but not replenished 82E = Replenished but not invoiced 83E = Deliver full order	81E
	Segment used for orders in consignment (prosthesis). In case of “invoice with replacement” do not use this segment. Example: ALI+++81E'				
	6 FTX – Free text				
	4451	Mandatory	Text subject qualifier	AAI = General information	AAI
	C108-4440	Mandatory	Literal free text		
	Segment is sometimes used to indicate remarks in free text regarding purchase orders. Example: FTX+AAI+++ free text on the order'				
	SG1 7 RFF – Reference to other messages				
	C506-1153	Mandatory	Reference qualifier	BO = Blanket Order number DQ = Delivery Note number (for cases of consignment)	BO
	C506-1154	Mandatory	Reference number		567
Segment is always identified with the blanket order number (contract). In cases of consignment, another RFF segment is used along with a delivery note number. Example: RFF+BO:567'					

SG2 9 NAD - Parties involved in purchase order					
HEADER SECTION	3035	Mandatory	Party qualifier	MS = Message issuer/sender MR = Message recipient BY = Buyer (requester) SU = Supplier (requestee) IV = Invoicee (invoice recipient) DP = Delivery party (point/store products are delivered to)	MS
	C082-3039	Mandatory	Party identification (GLN, Global Location Number), in format EAN-13.		8431299600008
	C082-3055	Mandatory	Code list responsible agency, coded	9 = EAN	9
	C080-3036	Conditional	Party name		ICS
	C059-3042	Conditional	Party address		Pg. Vall d'Hebron 119-129 (Esc.infermeria)
	3164	Conditional	City name		Barcelona
	3251	Conditional	Postcode identification		08035
	<p>Logaritme's purchase orders will contain the following data: MS, MR, US, BY, IV and DP. In addition to this it, will include: GLN, name, address, postal code, and the city/town identifiers. Example: NAD+MS+8431299600008::9++ICS(Unitat de tramitacio)+Pg Vall d?'Hebron 119-129 (Esc.infe:rmeria)+Barcelona++08035</p>				
SG3 10 RFF - References related to the parties					
C506-1153	Mandatory	Reference qualifier	VA = Número de identificación fiscal (NIF)	VA	
C506-1154	Mandatory	Reference number		Q5855029D	
<p>Logaritme will indicate the NIF in all parts indicated in the previous segment, except for the party UC (Patient). Example: RFF+VA:Q5855029D'</p>					

SG25 27 LIN – Line Item Header				
1082	Mandatory	Line Item number		1
C212-7140	Mandatory	GTIN (EAN) item number		8400862141404
C212-7143	Mandatory	Item number type, coded	EN = EAN	EN
The line item header segment is mandatory. Items are identified with their GTIN (Global Trade Identification Number), in EAN format. Example: LIN+1++8400862141404:EN'				
SG25 28 PIA – Additional product Id.				
4347	Mandatory	Product Id. function qualifier	1 = Additional Identification	1
C212-7140	Mandatory	Item number		A45U25
C212-7143	Mandatory	Item number type, coded	SA = Supplier's article number IN = Buyer's item number [Logaritme] SN = Serial number UA = Ultimate customer's article number [ICS]	SA
Logaritme will always send the supplier's article number and the buyer's item number within its purchase orders. The serial number is sent when needed. Example:PIA+1+ A45U25:SA'				
SG25 29 IMD – Item description				
7077	Mandatory	Item description type, coded	F = Free form	F
C273-7008	Mandatory	Item description [in free text]		JERINGUILLAS
Segment is used to provide a description of the items, using free text. Logaritme always sends this information. Example: IMD+F+:::JERINGUILLAS'				
SG25 31 QTY – Quantities				
C186-6063	Mandatory	Quantity qualifier	21 = Ordered quantity 59 = Number of consumer units in traded unit	21
C186-6060	Mandatory	Quantity (according to previous qualifier)		15
A segment of this type will always be sent along with the quantity requested; optionally, another segment with the number of consumer units in traded unit. Example: QTY+21:15'				

DETAIL SECTION

D L SG25 32 DTM – Date of delivery				
C507-2005	Mandatory	Date qualifier	2 = Delivery date requested 49E = Minimum shelf life remaining at time of receipt (days)	2
C507-2380	Mandatory	Date		20090201
C507-2379	Mandatory	Date format qualifier	102 = CCYYMMDD (qualifier 2) 804 = Days (qualifier 49E)	102
A segment specifying the date, and when relevant, the time or period of an activity identified by the date/time/period. DTM+2:20090201:102'				
SG25 33 MOA – Line Item monetary amount				
C516-5025	Mandatory	Monetary amount type qualifier	203 = Line net amount, without taxes 388 = Line item amount (taxes included)	388
C516-5004	Mandatory	Monetary amount (according to previous qualifier)		765.77
Logaritme will always send the total monetary amount for every item line, including taxes. Example: MOA+388:765.77'				
SG28 35 PRI – Unitary prices				
C509-5125	Mandatory	Price qualifier	AAA = Net unit price, without tax.	AAA
C509-5118	Mandatory	Price (per unit according to previous qualifier)		73
This segment is sent to indicate the net unit price (tax included). Example: PRI+AAA:73'				
SG34 40 TAX – Tax information				
5283	Mandatory	Tax qualifier	7 = Tax	7
C241-5153	Mandatory	Type of tax	VAT = Value added tax	VAT
C243-5278	Mandatory	Tax rate, percentage.		21
This segment will be sent to indicate the tax information that applies to the item. Example: TAX+7+VAT+++:::21'				

SG 34 41 MOA – Tax amount				
C516-5025	Mandatory	Monetary amount type qualifier	124 = Tax amount	124
C516-5004	Mandatory	Tax amount		15.33
This segment is used to indicate the monetary amounts related to the tax specified in the previous TAX segment. Example: MOA+124:15.33'				
SG35 44 NAD – Patient identification				
3035	Mandatory	Party qualifier	UC = Ultimate Consignee (patient's code)	UC
C082 – 3039	Mandatory	Party identification [Patient's case history]		8456789425107
This segment is conditional. It is used to indicate the patient's reference code (to pull up case history or health insurance card info.); the recipient of the goods described in LIN segment. Example: NAD+UC+8456789425107'				
51 UNS – Section Control of line items and summary				
0081	Mandatory	Section identification	S = Detail/Summary section separation	S
Segment is mandatory. It indicates the end to the 'Details Section' and the start of the 'Summary Section'. Example: UNS+S'				
51 MOA – Total monetary amount for purchase order				
C516-5025	Mandatory	Monetary amount type qualifier	79 = Net total	79
C516-5004	Mandatory	Monetary amount		145.87
This segment is always sent to indicate the purchase order's total payment amount. Example: MOA+79:145.87'				
83 UNT – End of the message				
0074	Mandatory	Number of segments in the message		72
0062	Mandatory	Message reference number (assigned by sender)		12345
This segment is mandatory. It indicates the end of the message. Example: UNT+72+12345'				

SUMMARY SECTION

6.3 Examples of an ORDERS message

Ordinary 'purchase order'

UNH+ICS291+ORDERS:D:96A:UN:EAN008'
BGM+226+5555+9'
DTM+137:20100301:102'
FTX+AAI+++Observaciones del pedido'
RFF+BO:BO111222'
NAD+MS+8431299600008::9++ICS (Unitat de tramitacio)+Pg Vall d?'Hebron 119-129 (Esc. enfe:rmeria+Barcelona++08035'
RFF+VA:Q5855029D'
NAD+MR+8400000000000::9++EMPRESA PROVEEDOR,S.A.+Domicilio+Poblacion++08022'
RFF+VA:A12345678'
NAD+SU+8400000000000::9++EMPRESA PROVEEDOR,S.A.+Domicilio+Poblacion++08022'
RFF+VA:A12345678'
NAD+BY+8431299600008::9++ICS(Unitat de tramitació)+Pg Vall d?'Hebron 119-129 (Esc. infe:rmeria+Barcelona++08035'
RFF+VA:Q5855029D'
NAD+IV+8431299600008::9++ICS(Unitat de tramitació)+Pg Vall d?'Hebron 119-129 (Esc. infe:rmeria+Barcelona++08035'
RFF+VA:Q5855029D'
NAD+DP+8431299000020::9++Mag. Sant Sadurni d?'Anoia+C/Moli d?'enGuineu 18-22+Sant Sadurni d?'Anoia++08770'
LIN+1++999999999999:EN'
PIA+1+1111111:SA'
PIA+1+222222:IN'
IMD+F++:::DESCRIPCION DE ARTICULO'
QTY+21:10'
QTY+59:1'
DTM+2:20100304:102'
DTM+49E:365:804'
MOA+388:24.2'
MOA+203:20'

PRI+AAA:2'
TAX+7+VAT+++:::21'
MOA+124:4.2'
LIN+2++88888888888888:EN'
PIA+1+3333333:SA'
PIA+1+4444444:IN'
IMD+F+++:::DESCRIPCION DE ARTICULO'
QTY+21:20'
QTY+59:5'
DTM+2:20100304:102'
MOA+388:121'
MOA+203:100'
PRI+AAA:5'
TAX+7+VAT+++:::21'
MOA+124:21'
UNS+S'
MOA+79:120'
UNT+38+ICS291'

Purchase order in consignment

UNH+ICS291+ORDERS:D:96A:UN:EAN008'
BGM+227+5555+9'
DTM+137:20100301:102'
ALI+++81E'
FTX+AAI+++Observaciones del pedido'
RFF+BO:BO111222333'
RFF+DQ:DQ111222333'
NAD+MS+8431299600008::9++ICS(Unitat de tramitacio)+Pg Vall d?'Hebron 119-129 (Esc. enfer:meria+Barcelona++08035'
RFF+VA:Q5855029D'

NAD+MR+8400000000000::9++EMPRESA PROVEEDOR,S.A.+Domicilio+Poblacion++08022'
RFF+VA:A12345678'
NAD+SU+8400000000000::9++EMPRESA PROVEEDOR,S.A.+Domicilio+Poblacion++08022'
RFF+VA:A12345678'
NAD+BY+8431299600008::9++ICS (Unitat de tramitació)+PgVall d?'Hebron 119-129 (Esc. enfe:rmeria+Barcelona++08035'
RFF+VA:Q5855029D
NAD+IV+8431299600008::9++ICS (Unitat de tramitació)+PgVall d?'Hebron 119-129 (Esc. enfe:rmeria+Barcelona++08035'
RFF+VA:Q5855029D'
NAD+DP+8431299000020::9++Mag. Sant Sadurni d?'Anoia+C/Moli d?'enGuineu 18-22+Sant Sadurni d?'Anoia++08770'
LIN+1++9999999999999:EN'
PIA+1+1111111:SA'
PIA+1+222222:IN'
PIA+1+S1:SN'
IMD+F++:::DESCRIPCION DE ARTICULO'
QTY+21:1'
QTY+59:1'
DTM+2:20100304:102'
MOA+388:1815'
MOA+203:1500'
PRI+AAA:1500'
TAX+7+VAT+++:::21'
MOA+124:815'
NAD+UC+123456789::9'
UNS+S'
MOA+79:1500'
UNT+32+ICS291'

7 ORDRSP (Purchase Order Response Message) sent from the supplier to Logaritme

7.1 ORDRSP D.96A

An ORDRSP message is sent by the supplier to Logaritme as a reply to a single ORDERS message.

Reply options:

- An acknowledgment of receipt and comprehension of data contained in the purchase order message,
- A confirmation that the purchase order has been accepted,
- Any suggested modification to the purchase order
- A notice of rejection to the whole purchase order or a part of the purchase order.

As a guide, the following principles should be established to avoid ambiguity in the application of current EDI purchase order response messages:

1. A purchase order response message indicates that the supplier has received a purchase order; it also indicates whether the supplier has accepted the purchase order entirely, partially, or not at all; when appropriate, it indicates necessary modifications to the 'purchase order', which are required to render the supplier capable of completing the order.
2. The purchase order response message should refer back to the original purchase order.
3. Enclosed within the same purchase order response message, it is possible to indicate an acknowledgement of receipt, confirmation (of acceptance or conditional acceptance), and proposed modifications by using the adequate qualifiers within the BGM and LIN segments.
4. The only segments and data elements required within a purchase order response message are listed below:
 - a. Those marked as 'mandatory' in the table 'ORDRSP message structure'.
 - b. Those that modify previous instructions from the 'header section' and/or 'detail section,' such as adding clarifications or other conditions. If a line item is modified, it is mandatory to specify the GTIN code within LIN segment, and the supplier's and buyer's codes in PIA segment. The others are only mandatory if they are modified.
 - c. When a purchase order is either completely accepted or completely rejected, it is not necessary to indicate the item lines that appear in the previous purchase order. It is sufficient to send the header.

Modifications to Item Lines

Logaritme allows various amendments to data from item lines. Depending on the data being modified, it is necessary to wait for the following instruction from Logaritme:

- **Case A: the order is sent anyway;** Logaritme accepts the proposed amendments made by the supplier (indicate value “6” in the DE1229 of segment LIN). This case happens when the supplier modifies one of the following fields:
 - The quantity requested (only when less than the original).
 - The delivery date/time/period
 - The item line’s monetary amount (amendments to ordered quantity only – never to the unit price).
 - Number of consumer units in traded unit
- **Case B: Shipment is cancelled** and awaiting for instructions from Logaritme (in this case, indicate value “3” in the DE1229 LIN segment). If the discrepancy is solved, another purchase order with the item in request may be received at a later date. This case will happen if any of the following fields are modified by the supplier:
 - the EAN code
 - the supplier’s item code/reference
 - the price details

Sending terms for purchase order replies

Logaritme solicits one reply from the supplier for every order made to the supplier and requires it within a period of 48 hours. Nevertheless, in cases when errors are found in the first reply (mistakes or missing information for any or some item lines), a second reply that complements or amends the original reply can be sent. These replies should be sent within a reasonable time period so that Logaritme can adopt the necessary measurements (according to the information that is sent).

How to indicate differences in quantity

In order to indicate that the quantity shipped will be less than the quantity requested (it is not possible to indicate an increase in quantity) by a purchase order, follow these instructions:

- To indicate the final quantity to be shipped (not the original requested by Logaritme) use segment QTY's element 6060 with qualifier 21
- To indicate the quantity that will not be delivered (using negative values) use segment QVR's element 6064 with qualifier 21.
- Optionally, to indicate the reason for the discrepancy use segment QVR's element 4221

If, hypothetically, there is a request for 10 units, but the final quantity to be shipped will be 8, it should be indicated in the following manner:

QTY+21:8'
QVR+-2:21'

How to indicate shipments with various dates of delivery

Occasionally, it is impossible to deliver the whole purchase order on the date solicited by the buyer but otherwise all the line items within a purchase-order would be accepted. In such cases, there needs to be as many line items as there are delivery dates (DTM). Each line item must indicate the quantity to be delivered and its corresponding date. If not all the line items requested are to be delivered, indicate the QVR segment corresponding to the difference in some of the line items.

If, hypothetically 10 units are requested but only 5 are delivered on the date solicited by the buyer (for example, 21/06/2010), 3 more one week later (28/06/2010), and 2 are not delivered at all; it should be indicated in the following manner (this example only uses the segments LIN, QTY, DTM and QVR):

LIN+1+6+8400862141404:EN' // Concerning to the first 5 units
QTY+21:5'
DTM+2:20100621:102'
LIN+1+6+8400862141404:EN' // Concerning to the next 3 units, and announces that 2 units will not be delivered



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QTY+21:3'
DTM+2:20100628:102'
QVR+-2:21'

7.2 ORDRSP Message Structure

	Elements	Status	Description	Code Values	Examples
MESSAGE HEADER	1 UNH – Message header				
	0062	Mandatory	Message reference number [generated by sender]		12345
	S009-0065	Mandatory	Message type Identifier	ORDRSP	ORDRSP
	S009-0052	Mandatory	Message type version number	D	D
	S009-0054	Mandatory	Message type release number	96A	96A
	S009-0051	Mandatory	Controlling agency	UN	UN
	S009-0057	Mandatory	Association assigned code	EAN005	EAN005
	Segment mandatory in all cases Example: UNH+12345+ORDRSP:D:96A:UN:EAN005'				
	2 BGM – Document number				
	C002-1001	Mandatory	Document/message number (generated by sender)	231 = Purchase Order Response	231
1004	Mandatory	Document/message function		123	
C002-1225	Mandatory	Message function	4 = Change 27 = Not Accepted 29 = Accepted without amendment	4	
<p>This segment is mandatory. The following code values, which apply to the message's field function are used in the following manner:</p> <ul style="list-style-type: none"> • 4 = Change: the supplier accepts (to provide the products/services) but proposes amendments to one or more items. • 27 = Not accepted: the supplier rejects the whole purchase order • 29 = Accepted without amendments: the supplier accepts (to provide products/services) the purchase order and all of its conditions <p>Example: BGM+231+123+4'</p>					

3 DTM - Date				
C507-2005	Mandatory	Date qualifier	137 = document date (Date when a reply is issued.)	137
C507-2380	Mandatory	Date		20090301
C507-2379	Mandatory	Date format qualifier	102 = CCYYMMDD	102
This segment is mandatory. Example: DTM+137:20090301:102'				
SG1 7 RFF - Reference to other messages				
C506-1153	Mandatory	Reference qualifier	ON = Purchase Order number	ON
C506-1154	Mandatory	Reference number		567
It is mandatory to indicate the purchase order number (ON). Example: RFF+ON:567'				
SG3 9 NAD - Parties involved in message				
3035	Mandatory	Party qualifier	MS = Message issuer/sender MR = Message recipient BY = Buyer (requester) SU = Supplier (requestee) IV = Invoicee (invoice recipient) DP = Delivery party (point/store products are delivered to)	MS
C082-3039	Mandatory	Party identification (GLN, Global Location Number) in EAN-13 format		8431299600008
C082-3055	Conditional	Code list responsible agency, coded	9 = EAN	9
It is mandatory for the supplier to send an NAD segments that correspond to the buyer (BY), supplier (SU), and issuer/sender of message/document (MS), and message/document recipient (MR). The rest are conditional. Example: NAD+MS+8431299600008::9'				

MESSAGE HEADER

SG26 25 LIN – Line Item Header				
1082	Mandatory	Line item number		1
1229	Mandatory	Action/notification request, coded	3 = Change 5 = Accepted without amendments 6 = Accepted with amendments 7 = Not accepted	3
C212-7140	Mandatory	Item number GTIN (EAN)		8400862141404
C212-7143	Mandatory	Item number type, coded	EN = EAN	EN
<p>The line item header segment is mandatory. It is where the item is identified with its code GTIN (Global Trade Identification Number), in EAN format, and the line item status is indicated. When the data of a line item is modified:</p> <ul style="list-style-type: none"> To indicate a new purchase order for an item line, use code value 3 (case B from Logaritme) To indicate that the modifications do not require a new purchase order, use code value 6 (case A) Note: see section 7.1 for further explanation of these cases <p>Example: LIN+1+3+8400862141404:EN'</p>				
SG26 26 PIA – Additional product Id.				
4347	Mandatory	Product Id. function qualifier	1 = Additional identification	1
C212-7140	Mandatory	Item number		A45U25
C212-7143	Mandatory	Item number type, coded	SA = Supplier's article number IN = Buyer's Item number	SA
<p>The supplier is required to include two PIA segments to indicate the supplier's article number (SA) and the buyer's item number (IN). The serial number is added as needed.</p> <p>Example: PIA+1+ A45U25:SA'</p>				
SG26 27 IMD – Item description				
7077	Mandatory	Item description type, coded	F = Free form	F
C273-7008	Mandatory	Item description (in free text)		JERINGUILLAS
<p>Segmento opcional para indicar en texto libre la descripción del artículo.</p> <p>Example: IMD+F+M+:::JERINGUILLAS'</p>				

DETAIL SECTION

SG26 28 QTY – Quantities				
C186-6063	Mandatory	Quantity qualifier	21 = Ordered quantity 59 = Number of consumer units in the traded unit	21
C186-6060	Mandatory	Quantity (according to the previous qualifier)		15
This segment is mandatory only if the indicated data is modified. Example: QTY+21:15				
SG26 29 DTM – Date of delivery				
C507-2005	Mandatory	Date qualifier	2 = Delivery date requested	2
C507-2380	Mandatory	Date		20090201
C507-2379	Mandatory	Date format qualifier	102 = CCYYMMDD	102
This segment is mandatory if the specified date of delivery on the purchase order is modified; it is used to indicate the date of delivery. Example: DTM+2:20090201:102'				
SG26 30 MOA – Monetary amount for the line item				
C516-5025	Mandatory	Monetary amount type qualifier	203 = Line net amount, without taxes 388 = Line item amount (taxes included)	388
C516-5004	Mandatory	Monetary amount (according to previous qualifier)		765.77
This segment is mandatory only if the indicated MOA in the purchase order is modified. It is used to confirm the item line's monetary amount, including taxes. Example: MOA+388:765.77'				

DETAIL SECTION

QVR – Discrepancies				
DETAIL SECTION	C279-6064	Mandatory	Quantity difference	-10
	C279-6063	Mandatory	Quantity qualifier	21 = Ordered quantity
	4221	Conditional	Discrepancy coded (indicates reason for discrepancy causing difference in quantity)	AA = Item discontinued by wholesaler AB = Item no longer produced AD = Item out of stock at manufacturer AS = Available now - scheduled to ship BK = Back-ordered from previous order BP = Shipment partial, Back-order to follow CP = Shipment partial, considered complete, no Back-order CN = Next Carrier PS = In process - scheduled to ship (date) OS = Item out of stock because of strike of force majeure OW = Item out of stock at wholesaler TW = Item temporarily discontinued by wholesaler
	C960-4295	Conditional	Change reason, coded (indicate reason for change in this field)	AJT = Adjustment details AUE = Article code unknown AV = Out of inventory AQ = Alternative quantity and unit of measurement IS = Item represents substitution from original order PC = Pack Difference UM = Unit of Measure Difference WV = Committed purchase quantity not ordered
This segment is conditional, used to indicate reasons for discrepancies in quantity. To express variances in quantity – use element 4221; for all other type of variances – use element 4295. Example: QVR+-10:21+AD' (10 units less to be delivered due to stock shortage).				

		SG30 32 PRI – Unitary prices				
		Code	Requirement	Description	Value	
DETAIL SECTION	C509-5125	Mandatory	Price qualifier	AAA = Net unit price, without tax.	AAA	
	C509-5118	Mandatory	Price (per unit, according to previous qualifier)		76.577	
<p>This segment is mandatory only if modified with respect to the purchase order. It is sent to confirm the final unit price. Example: PRI+NTP:76.577'</p>						
		41 UNS – Section Control for line items and summary				
		Code	Requirement	Description	Value	
SUMMARY SECTION	0081	Mandatory	Section Identification	S = Detail/Summary section separation	S	
	<p>This segment is mandatory to separate the detail section from the summary section. Example: UNS+S'</p>					
			42 MOA – Total monetary amount for purchase order			
			Code	Requirement	Description	Value
	C516-5025	Mandatory	Monetary amount type qualifier	139 = Total payment amount	139	
	C516-5004	Mandatory	Monetary amount		145.87	
<p>This segment is optional. It confirms to total payment amount for the purchase order. Example: MOA+139:145.87'</p>						
		43 UNT – End of the message				
		Code	Requirement	Description	Value	
	0074	Mandatory	Number of segments in the message		72	
	0062	Mandatory	Message reference number (assigned by sender)		12345	
<p>This segment is mandatory, used to indicate the end of the message. Example: UNT+72+12345'</p>						

7.3 Examples of an ORDRSP message

ORDRSP to a purchase order accepted without amendments

UNH+RP291+ORDRSP:D:96A:UN:EAN005'
BGM+231+5555+29'
DTM+137:20100301:102'
RFF+ON:ICS291'
NAD+MS+84000000000000::9'
NAD+MR+84312996000008::9'
NAD+SU+84000000000000::9'
NAD+BY+84312996000008::9'
UNT+9+RP291'

ORDRSP to a purchase order not accepted

UNH+RP291+ORDRSP:D:96A:UN:EAN005'
BGM+231+5555+27'
DTM+137:20100301:102'
RFF+ON:ICS291'
NAD+MS+84000000000000::9'
NAD+MR+84312996000008::9'
NAD+SU+84000000000000::9'
NAD+BY+84312996000008::9'
UNT+9+RP291'

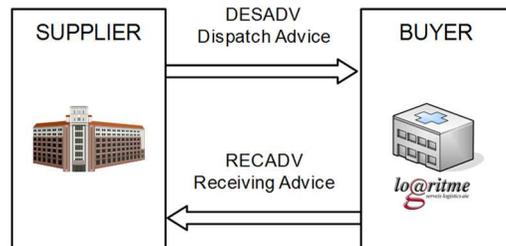
ORDRSP purchase order accepted with amendments

The first item line is accepted without modifications and the second one is accepted with amendments. The third one is not accepted.

UNH+ICS291+ORDRSP:D:96A:UN:EAN005'
BGM+231+5555+4'
DTM+137:20100301:102'
RFF+ON:ICS291'
NAD+MS+8400000000000::9'
NAD+MR+8431299600008::9'
NAD+SU+8400000000000::9'
NAD+BY+8431299600008::9'
LIN+1+5+9999999999999:EN'
LIN+2+3+8888888888888:EN'
PIA+1+3333333:SA'
PIA+1+444444:IN'
IMD+F+:::DESCRIPCION DE ARTICULO2'
QTY+21:10'
QTY+59:5'
DTM+2:20100304:102'
MOA+388:50'
QVR+-10:21+TW'
PRI+NTP:5'
LIN+3+7+7777777777777:EN'
UNS+S'
MOA+139:120'
UNT+23+ICS291'

8 DESADV (Dispatch Advice Message) sent from the Supplier to Logaritme

8.1 DESADV D.96A



Scenario for shipment delivery process

A 'dispatch advice message' is generated by the supplier to detail the content of a shipment ready for delivery to its designated recipient. It makes reference to just one shipment launch point (one shipper) and just one recipient destination point (one recipient).

It also enables the message recipient to get the necessary information to facilitate the receipt of goods and plan the consignment of shipment to the appropriate healthcare entities. The purchase order number needs to be included on the 'dispatch advice message' to carry out the delivery of a shipment.

A 'dispatch advice message' should be generated for each purchase order, except in cases when a single delivery needs to be completed by more than one physical shipment due to the size of the purchase order. A 'dispatch advice message' can also include additional information regarding solicited products that were not available when the purchase order was processed, such as production lot numbers, serial numbers, dates and times of production, expiry dates etc.

Logaritme utilizes non-logistical DESADV (without packaging or labeling information). This implies that if a supplier sends a DESADV with logistic information, it will be ignored at first glance upon receiving the document/message. Logaritme, nevertheless, reserves the right to request a 'delivery note' from its suppliers if it is considered necessary.

Mandatory information at the 'line item' level

At the line level, it will be necessary to indicate the EAN code, the buyer's internal product group code, the supplier's internal article group code, and the quantity expected to be delivered.

It is also mandatory to indicate:

- Temperature requirements for conserving items (if and when it varies to ambient temperature).
- The lot number (if existent). If there are several lot numbers, a LIN segment must be assigned to each lot number.

8.2 DESADV Message Structure

	Elements	Status	Description	Code Values	Examples	
HEADER SECTION	1 UNH – Message Header					
	0062	Mandatory	Message reference number [generated by sender]		12345	
	S009-0065	Mandatory	Message type Identifier	DESADV	DESADV	
	S009-0052	Mandatory	Message type version number	D	D	
	S009-0054	Mandatory	Message type release number	96A	96A	
	S009-0051	Mandatory	Controlling agency	UN	UN	
	S009-0057	Mandatory	Association assigned code	EAN005	EAN005	
	This segment is mandatory in all cases. Example: UNH+12345+DESADV:D:96A:UN:EAN005'					
	2 BGM – Document number					
	C002-1001	Mandatory	Document type	351 = Dispatch advice	351	
	1004	Mandatory	Document number (generated by the sender)		123	
	C002-1225	Conditional	Document function	9 = Original	9	
	This segment is mandatory in all cases. Example: BGM+351+123+9'					
	3 DTM - Date					
	C507-2005	Mandatory	Date qualifier	137 = Document date 191 = Delivery date expected	137	
	C507-2380	Mandatory	Date		20090301	
	C507-2379	Mandatory	Date format qualifier	102 = CCYYMMDD 203 = CCYYMMDDHHMM	102	
	This segment needs to be sent two times; once for the date the message is issued and the second time to indicate the expected delivery date of the purchase order. Example: DTM+137:20090301:102'					

SG1 6 RFF – Reference to other messages					
HEADER SECTION	C506-1153	Mandatory	Reference qualifier	DQ = Delivery note number ON = Purchase order Number	ON
	C506-1154	Mandatory	Reference number		567
	It is mandatory to indicate this segment (RFF) twice, once for each case. Example: RFF+ON:567'				
	SG2 9 NAD - Parties involved with dispatch advice message				
	3035	Mandatory	Party qualifier	MS = Message issuer/sender MR = Message recipient BY = Buyer (requester) SU = Supplier (requestee) DP = Delivery party (point/store products are delivered to)	MS
C082-3039	Mandatory	Party identification (GLN, Global Location Number), in EAN-13 format		8431299600008	
C082-3055	Mandatory	Code list responsible agency, coded	9 = EAN	9	
It is mandatory for the supplier to send the segments NAD corresponding to all the parties indicated above; excluding the patients reference number, which is only sent for cases of prothesis. Example: NAD+MS+8431299600008::9'					
PACKAGE SECTION	SG10 15 CPS – Consignment packing sequence				
	7164	Mandatory	Hierachical Id. number		1
This is the segment header for packages included within a delivery. Given that Logaritme does not require the logistics' delivery note, all segments related to packages should be ignored; only line item number segments and their related segments will be considered. Example: CPS+1'					

SG15 28 LIN – Line item header				
1082	Mandatory	Line item number		1
C212-7140	Mandatory	GTIN (EAN) item number		8400862141404
C212-7143	Mandatory	Item number type, coded	EN = EAN	EN
The line item segment header is mandatory; it is used to identify items using their GTIN item number (Global Trade Identification Number) in EAN format. Example: LIN+1++8400862141404:EN'				
SG15 23 PIA – Additional product identification				
4347	Mandatory	Product Id. function qualifier	1 = Additional Identification	1
C212-7140	Mandatory	Item number		A45U25
C212-7143	Mandatory	Item number type, coded	SA = Supplier's article number, IN = Buyer's item Number, SN = Serial number	SA
The supplier is required to include two PIA segments to indicate the supplier's item number (SA) and the buyer's item number (IN). The serial number is added as needed. Example: PIA+1+ A45U25:SA'				
SG15 25 MEA – Measurements				
6311	Mandatory	Measurement application qualifier, coded	SO = Storage limitation	SO
C502-6313	Mandatory	Measurement dimension, coded	TC = Temperature	TC
C174-6411	Mandatory	Measure unit qualifier	CEL = Celsius	CEL
C174-6162	Mandatory	Range Minimum		-4
C174-6152	Mandatory	Range Maximum		4
This segment is used only if the item to be delivered needs to be kept at a specific temperature for conservation purposes. Example: MEA+SO+TC+CEL::-4:4'				

DETAIL SECTION

SG15 26 QTY – Quantities				
C186-6063	Mandatory	Quantity qualifier	12 = Dispatch quantity 59 = Number of consumer units in traded unit	12
C186-6060	Mandatory	Quantity (according to previous qualifier)		15
It is mandatory for this segment to be sent at least once indicating the quantity delivered. It is optional to send it a second time indicating the quantity of consumer units in traded unit. . Example: QTY+12:15				
SG20 36 PCI – Package Identification				
4233	Mandatory	Marking instructions, coded	36E = Instructions from supplier	36E
This segment is mandatory, used to identify the related delivery dates (DTM) and the good identity number (GIN). Example: PCI+36E'				
SG20 37 DTM – Date				
C507-2005	Mandatory	Date qualifier	36 = Expiry date 365 = Packaging date	36
C507-2380	Mandatory	Date		20090301
C507-2379	Mandatory	Date format qualifier	102 = CCYYMMDD	102
It is mandatory to indicate this segment at least once with the expiry date. In other cases, it depends on the product. Example: DTM+36:20090301:102'				
SG21 39 GIN – Good's identity number				
7405	Mandatory	Identity number qualifier	BX = Lot number	BX
C208-7402	Mandatory	Identity number		A234323'
This segment is mandatory, used to indicate the good's lot number. Example: GIN+BX+A234323'				
40 UNT – End of the message				
0074	Mandatory	Number of segments in the message		72
0062	Mandatory	Message reference number (assigned by sender)		12345
This segment is mandatory, used to indicate the end of the message. Example: UNT+72+12345'				

DETAIL SECTION

SUMMARY

8.3 Example of DESADV message

UNH+DV300+DESADV:D:96A:UN:EAN005'
BGM+351+5555+9'
DTM+137:20100301:102'
DTM+191:20100310:102'
RFF+ON:ICS291'
RFF+DQ:ALB12345'
NAD+MS+84000000000000::9'
NAD+MR+8431299600008::9'
NAD+SU+84000000000000::9'
NAD+BY+8431299600008::9'
NAD+DP+8431299000020::9'
CPS+1'
LIN+1++99999999999999:EN'
PIA+1+1111111:SA'
PIA+1+222222:IN'
MEA+SO+TC+CEL::-4:4'
IMD+F+:::DESCRIPCION DE ARTICULO1'
QTY+12:10'
QTY+59:1'
PCI+36E'
DTM+36:20120301:102'
GIN+BX+A234323'
LIN+2++88888888888888:EN'
PIA+1+3333333:SA'
PIA+1+444444:IN'

IMD+F++:::DESCRIPCION DE ARTICULO2'

QTY+12:20'

QTY+59:5'

PCI+36E'

DTM+36:20110501:102'

UNS+S'

UNT+32+DV300'

9 RECADV (Receiving Advice Message) sent from Logaritme to the Supplier

9.1 RECADV D.96A

A receiving advice message concerns the needs related to the reception of goods. It is used either to acknowledge a receipt of merchandise or to alert the supplier of particular discrepancies found after receipt of merchandise and/or the controlled content within a shipment that has already been accepted.

The message relates to only one shipping launch point and only one recipient destination point, and can cover a number of different items.

It allows the buyer or recipient of the goods to provide the supplier with the corresponding information:

- An acknowledgement that the shipment has been delivered
- Notifies discrepancies between the number of received items and the number of items sent (and/or ordered).
- Notifies or gives instructions concerning the acceptance or suggestions with regard to the identified discrepancies.
- Instructions regarding the corrections that must be carried out on the invoice or credit note that is to be sent; which are based on the dispatch advice message or delivery notice.

Logaritme will send the confirmation receipt to the supplier once the merchandise has been physically received and inspected. For practical reasons, the INVOIC message should not be sent until the buyer confirms and accepts the merchandise. In this way, message errors will be minimized.

Scenario without discrepancies

The confirmation of receipt can either start the invoicing process for the merchandise received or services rendered; or it can be utilized by the supplier to oversee the transport services employed. Following the recommendations from the AECOC (GS1 Spain) Health Sector Guidelines, Logaritme will send the information from all the lines, even if they do not contain any modifications.

Scenario with discrepancies

For these cases, the receipt advice message is utilized to notify discrepancy in merchandise received, accepted, and sent (shipped); similar to how it is communicated in the dispatch advice message. In this case, the receiving advice message will normally include information related to merchandise stolen or damaged in transit, short or excessive hauls, or unknown items, etc.

The segment QVR (from 6063 and 6064) is used to specify any variations in what is ordered /sent and what is received and accepted.

Lot numbers

Similar to the DESADV explanation; when in a particular delivery there exists various 'good identification numbers' for the same item, it is required to indicate a LIN segment for each 'good identification number' that differs. This same rule also applies to the RECADV generated by Logaritme; there will be a LIN segment in RECADV for each LIN from DESADV, in other words, a LIN segment for each item and each 'good identification number'.

9.2 RECADV Message Structure

	Elements	Status	Description	Code Values	Examples
HEADER SECTION	1 UNH – Message Header				
	0062	Mandatory	Message reference number [generated by sender]		12345
	S009-0065	Mandatory	Message type Identifier	RECADV	RECADV
	S009-0052	Mandatory	Message type version number	D	D
	S009-0054	Mandatory	Message type release number	96A	96A
	S009-0051	Mandatory	Controlling agency	UN	UN
	S009-0057	Mandatory	Association assigned code	EAN003	EAN003
	This segment is mandatory, used in all the cases. Example: UNH+12345+RECADV:D:96A:UN:EAN003'				
	2 BGM – Document number				
	C002-1001	Mandatory	Document type	352 = Receiving advice number	352
	C002-3055	Mandatory	Code list responsible agency, coded	9 = EAN	9
	1004	Mandatory	Document/message number (generated by sender)		123
	C002-1225	Conditional	Document/message function	9 = Original 29 = The referenced DESADV has been accepted without corrections	9
	This segment is mandatory, used in all the cases. Example: BGM+352+123+9'				
	3 DTM - Date				
	C507-2005	Mandatory	Date qualifier	137 = Document date 50 = Goods receipt date	137
	C507-2380	Mandatory	Date		20090301
	C507-2379	Conditional	Date format qualifier	102 = CCYYMMDD	102
Logaritme will send two DTM segments to indicate the date of message and the date the shipment is received. Example: DTM+137:20090301:102'					

SG1 4 RFF – Reference to other messages					
HEADER SECTION	C506-1153	Mandatory	Reference qualifier	DQ = Delivery note number ON = Purchase order number AAK = Dispatch advice number	ON
	C506-1154	Mandatory	Reference number		567
	All three references should be sent in three RFF segments. Example: RFF+ON:567'				
	SG4 5 NAD - Parties involved in receiving advice message				
	3035	Mandatory	Party qualifier	MS = Message sender MR = Message recipient (of RECADV) DP = Delivery Party (recipient of shipment) SH = Shipper (party shipping merchandise) BY = Buyer	MS
C082-3039	Mandatory	Party identification (GLN, Global Location Number) in EAN-13 format		8431299600008	
C082-3055	Mandatory	Code list responsible agency, coded	9 = EAN	9	
This segment is mandatory, used to send NAD segments related to the parties indicated above by means of their party identification number. Example: NAD+MS+8431299600008::9'					
SG16 6 CPS – Consignment packing sequence					
PACKAGE SECTION	7164	Mandatory	Hierarchical Id. number		1
	Header for packages included within a delivery. Given that Logaritme does not require the logistics' delivery note, all segments related to packages should be ignored; only line item number segments and their related segments will be considered. It is mandatory, for structural reasons, to include at least the first package. This segment and those subsequent to it should be sent when discrepancies are detected with respect to the dispatch advice message. Example: CPS+1'				

SG22 10 LIN – Line item header				
1082	Mandatory	Line item number		1
C212-7140	Mandatory	GTIN (EAN) item number		8400862141404
C212-7143	Mandatory	Item number type, coded	EN = EAN	EN
This segment is mandatory, used to identify the item using its GTIN item number (Global Trade Identification Number) in EAN format. Example: LIN+1++8400862141404:EN'				
SG22 11 PIA – Additional product identification				
4347	Mandatory	Product Id. Function qualifier	1 = Additional Identification	1
C212-7140	Mandatory	Item number		A45U25
C212-7143	Mandatory	Item number type, coded	SA = Supplier's article number IN = Buyer's article number, SN = Serial number	SA
Logaritme will include two PIA segments to indicate the supplier's article number (SA) and the buyer's item number (IN). The serial number is added as needed. Example: PIA+1+ A45U25:SA'				
SG22 12 QTY – Quantities				
C186-6063	Mandatory	Quantity	12 = Dispatch quantity 194 = Received and accepted	12
C186-6060	Mandatory	Quantity (according to previous qualifier)		15
This QTY segments will be sent; one of each to indicate the quantity expressed for each of the previous qualifiers. Example: QTY+12:15'				

DETAIL SECTION

SG22 13 QVR – Discrepancies				
DETAIL SECTION	C279-6064	Mandatory	Quantity difference	-40
	C279-6063	Mandatory	Quantity qualifier	195 = Received, not accepted, to be returned 196 = Received, not accepted, to be destroyed 119 = Short shipped
	4221	Mandatory	Discrepancy, coded	CP = Shipment partial, considered complete, no back order BP = Shipment partial, back order to follow AF = Goods delivered, damaged
	4295	Conditional	Change reason, coded	IS = Item represents substitution from original order (characteristics vary from the original item requested) PE = Minimum/maximum product durability date unacceptable X37 = Discrepancies in lot number X38 = Discrepancies in expiry date
	<p>This segment is optional when discrepancies exist. Use element 4221 to describe discrepancies regarding quantity only; use element 4295 for other types of discrepancies. Example: QVR+-40:195++PE'</p>			
SG29 14 PCI – Package Identification				
4233	Mandatory	Marking instructions, coded	36E = Instruction to collect from supplier	36E
<p>This segment is mandatory for structural reasons, used to quickly identify good item numbers (GIN) Example: PCI+36E'</p>				
SG31 15 GIN – Good's Identity Number				
7405	Mandatory	Identity number qualifier	BX = Lot number	BX
C208-7402	Mandatory	Identity number		A234323'
<p>This segment is mandatory, used to indicate lot number. Example: GIN+BX+A234323'</p>				

17 UNT – End of the message				
SUMMARY	0074	Mandatory	Number of segments in the message	72
	0062	Mandatory	Message reference number (assigned by sender)	12345
	<p>This segment is mandatory, used to indicate the end of the message. Example: UNT+72+12345'</p>			

9.3 Example of RECADV message

RECADV message, receipt and acceptance of sent message

UNH+RC300+RECADV:D:96A:UN:EAN003'
BGM+352+5555+9'
DTM+137:20100301:102'
DTM+50:20100310:102'
RFF+ON:ICS291'
RFF+DQ:ALB12345'
RFF+AAK:RC12345'
NAD+MS+8431299600008::9'
NAD+MR+8400000000000::9'
NAD+SH+8400000000000::9'
NAD+DP+8431299000020::9'
CPS+1'
LIN+1+++9999999999999:EN'
PIA+1+1111111:SA'
PIA+1+222222:IN'
QTY+12:100'
QTY+48:100'
QTY+194:100'
UNT+20+RC300'

RECADV message, receipt with discrepancies

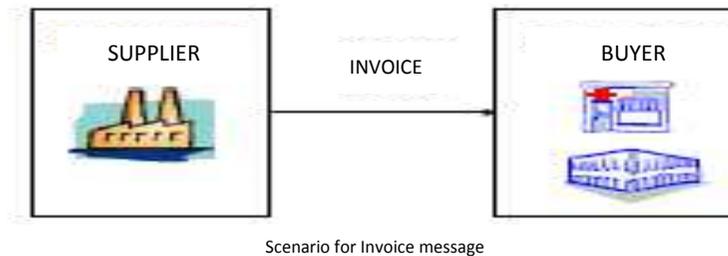
An item line containing 100 units and five of which are in an unacceptable condition.

UNH+RC300+RECADV:D:96A:UN:EAN003'
BGM+352+5555+9'
DTM+137:20100301:102'
DTM+50:20100310:102'
RFF+ON:ICS291'
RFF+DQ:ALB12345'
RFF+AAK:RC12345'
NAD+MS+8431299600008::9'
NAD+MR+8400000000000::9'
NAD+SH+8400000000000::9'
NAD+DP+8431299000020::9'
CPS+1'
LIN+1++9999999999999:EN'
PIA+1+1111111:SA'
PIA+1+222222:IN'
QTY+12:100'
QTY+48:100'
QTY+194:95'
QVR+-5:196+AF'
UNT+21+RC300'

10 INVOIC (invoice document) sent by supplier to ICS

10.1 INVOIC D.93A

This message documents the balance incurred by the recipient of the merchandise or service, which has been supplied under the agreement between buyer and seller.



It is mandatory to identify the delivery note number and the order number of the transaction in segment RFF of the header. Also, it is recommended, but not mandatory, to indicate the receiving advice number.

The invoice message contains all the legal identification requisites, both mercantile and fiscal. It is mandatory to indicate the corporate name and address of the issuer and recipient as well as the business registration reference of the issuer within segment SG02-NAD with the SCO and BCO codes respectively. The VAT registration number (NIF) is specifically mandatory in segment SG03-RFF. It is also mandatory to indicate the place of issuance of the invoice (location), specifically in the data element 3164 of segment SG02-NAD, with the SU qualifier.

Within the various kinds of documents that are admitted by the INVOIC D.93A message, ICS will solely admit the commercial invoice, delivery note, and the corrected invoice in its full-length, (DE 1001 segment BGM; 380, 381, and 384 codes respectively).

Electronic-Invoice

Since February 2003 EDI invoices have been able to substitute paper copies. This has been made possible by digital signature technology, a tool that gives guaranteed integrity and authenticity to signed documents, and for the most part offers a high level of guaranteed security and validation to the EDIINVOIC message.

Below, we have listed the Spanish legislation concerning e-invoicing:

- LAW 37/1992, 28 of December, concerning Value-added tax
- ROYAL DECREE 1496/2003, 28 of November, regulations on invoicing obligations approved and regulation on value-added-tax amended.
- COMMAND EHA/962/2007, 10 of April, in which, specific stipulations outline telematic invoicing and electronic invoice storage enclosed within the Royal Decree 1496/2003, 28 of November, which approves the regulations on invoicing obligations.

Environmental Protection Tax

According to AECOC's recommendations, it is possible to include the green tax amount within the tariff price (as part of the gross price) or as a fee (by means of an ALC segment at the line level). This decision should be taken by the manufacturer in conformance to law (it is recommended that when green tax is superior to 1% of the tariff price, it be included as a fee). In any case, the green tax will be reflected in the net price per line.

In both cases, the green tax summary is to be indicated mandatorily for informative purposes in the summary section (segment TAX with the "ENV" qualifier).

Moreover, if the fee corresponding to the tax is not included in the tariff price, it should be indicated at the line level in an ALC segment (ALC segment with "VEJ" qualifier).

Application error and acknowledgment message (APERAK)

ICS will acknowledge receipt of INVOIC (invoice) with APERAK message types that serve as invoice-status updates. Chapter 11 details its operation and message structure.

10.2 INVOIC message structure

	Element	Status	Description	Possible Values	Example
INVOICE HEADER	Message Header (mandatory)				
	0062	Mandatory	Message reference number		12345
	S009-0065	Mandatory	Messeage identifier	INVOIC	INVOIC
	S009-0052	Mandatory	Message version number	D	D
	S009-0054	Mandatory	Message release number	93 ^a	93A
	S009-0051	Mandatory	Controlling agency, coded	UN	UN
	S009-0057	Mandatory	Association assigned code	EAN007	EAN007
	Segment is mandatory in all cases. Example: UNH+12345+INVOIC:D:93A:UN:EAN007'				
	2 BGM –Document number (mandatory)				
	C002-1001	Mandatory	Document message name code	380 = Commercial invoice 381 = Credit note 384 = Corrected Invoice (includes annulment)	380
1004	Mandatory	Document identifier – Invoice number assigned by the issuer		123	
C002-1225	Conditonal	Message function code	9 = Original	9	
Segment is mandatory in all cases. Example: BGM+380+123+9'					

3 DTM – Date (mandatory)					
INVOICE HEADER	C507-2005	Mandatory	DTM function code qualifier	137 = (Document's/message's date/time) Date of invoice 95E = Service(s) completed date/time 325 = Tax period	137
	C507-2380	Mandatory	DTM text		20090301
	C507-2379	Mandatory	Format code	102 = CCYYMMDD 718 = CCYYMMDD CCYYMMDD	102
	<p>It is mandatory to specify this message at least once in order to indicate the date of the invoice. If the date of service is different from the date invoiced, it must also be specified. The tax period's date is mandatory in a case dealing with a credit note or corrected invoice (in this case, use format 718). Example: DTM+137:20090301:102'</p>				
SG1 7 RFF – Reference to other documents (mandatory)					
C506-1153	Mandatory	Reference code qualifier	ON = Buyer's order number DQ = Delivery note number ALO = Receiving advice message IV = Invoice number (for credit notes and annulments)	ON	
C506-1154	Mandatory	Reference identifier		567	
<p>It is mandatory to indicate the order number and the delivery note number. It is advisable but not mandatory to indicate the receiving advice message number. It is only mandatory to indicate the tax period's date with credit notes and corrected invoices. Example: RFF+ON:567'</p>					

SG2 9 NAD – Name and Address: Parties involved with invoice (mandatory)					
INVOICE HEADER	3035	Mandatory	Party function code qualifier	SCO = Suppliers corporate office BCO = Buyers corporate office BY = Buyer SU = Supplier IV = Invoicee – Recipient of the invoice, party that’s billed) DP = Delivery path – merchandise delivery point	BCO
	C082-3039	Mandatory in all cases	Party identification (GLN, Global Location Number), in EAN-13 format		8431299600008
	C082-3055	Mandatory	Code list responsible agency, coded	9 = EAN	9
	C080-3036 (1 y 2)	Mandatory for SCO and BCO	Party name		ICS (Unit in transfer)
	C080-3036 (3 y 4)	Mandatory in SCO.	Party name – Registered Company		
	C059-3042	Mandatory SCO and BCO	Address type		Pg Vall d'Hebron 119-129 (Esc.infermeria)
	3164	Mandatory SCO and BCO	City name		Barcelona
	3251	Mandatory SCO and BCO	Postcode identification		08035
	3207	Mandatory in SCO, if not the same as ES (Spain).	Country, coded		ES
<p>It is mandatory for the legal buyer (BCO) and the legal supplier (SCO) to use this segment; the SCO must complete all fields (except Country, which is only mandatory for international suppliers); the BCO must complete all fields (except the business register and the Country); for the BY, SU, IV, DP, its use is conditional, and in any case it would be enough to indicate the delivery path. Example: NAD+BCO+8431299600008::9++ICS (Unitat de tramitacio)+Pg Vall d?'Hebron 119-129 (Esc.infe:rmeria)+Barcelona++08035'</p>					

SG2 11 RFF - References associated with parties involved (mandatory)				
C506-1153	Mandatory	Reference qualifier	VA = VAT registration number (NIF)	VA
C506-1154	Mandatory	Reference number		Q5855029D
This segment indicates the NIF and therefore is mandatory after NAD segments, which identify the legal buyer (BCO) and legal supplier (SCO). Example: RFF+VA: Q5855029D'				
SG7 14 CUX - Currency of Invoice (conditional)				
C504-6347	Mandatory	Currency details qualifier	2 = Reference currency	2
C504-6345	Mandatory	Currency, coded	EUR = Euros	EUR
C504-6343	Mandatory	Currency, qualifier	4 = Invoice currency	4
Conditional segment, used to indicate the currency of the invoice. In its absence, the Euro is assumed. Example: CUX+2:EUR:4'				
SG15 21 ALC – Overall allowance or charge details (conditional)				
5463	Mandatory	Allowance or charge qualifier	A = Allowance C = Charge	A
1227	Conditonal	Calculation sequence indicator, coded – if not specified assume 1	1 = First step of calculation – apply over the net sum of each line. 2, 3, 4, 5, etc. = apply on to the result of the previous step of calculation	1
C214-7161	Conditonal	Special services identification – Type of allowances or charges	EAB = Early payment allowance TD = Trade discount FC = Freight charge PC = Packing SH = Special handling service IN = Insurance CW = Container allowance / returned	TD
Conditional segment, used to specify any allowance or charge that is applicable to the sum of the total net amount per line. To indicate an allowance, it is necessary to use this segment consecutively, followed by the two following: PCD to indicate percentage/rate, and MOA to indicate total allowance amount. Example: ALC+A+++1+TD'				

INVOICE HEADER

INVOICE HEADER		SG18 22 PCD – Allowance or charge percentage (conditional)			
		C501-5245	Mandatory	Percentage details qualifier	1 = Allowance 2 = Charge
C501-5482	Mandatory	Percentage		3.5	
Conditional segment, used to specify any sort of allowance percentage applied onto the previous ALC segment. Example: PCD+1:3.5'					
INVOICE HEADER		SG19 23 MOA – Monetary amount: amount of allowances or charges (conditional)			
		C516-5025	Mandatory	Monetary amount type qualifier	8 = Allowance or charge amount
C516-5004	Mandatory	Monetary allowance amount		676	
Conditional segment, which is used to declare the monetary amount after adding the percentage indicated in the previous segment to the sum-total net value of each line item. Example: MOA+8:676'					
ITEM LINE		SG25 24 LIN – Line item header (mandatory)			
		1082	Mandatory	Line item number	
C212-7140	Mandatory	Item number identification (EAN)		8400862141404	
C212-7143	Mandatory	Item number type, coded	EN = EAN	EN	
Segment line item header, mandatory, where the article is identified with its GTIN code (Global Trade Identification Number), in EAN format. Example: LIN+1++8400862141404:EN'					
ITEM LINE		SG25 25 PIA – Additional product identification (conditional)			
		4347	Mandatory	Product i.d. function qualifier	1 = Additional identification
C212-7140	Mandatory	Item i.d. number		123456 ^a	
C212-7143	Mandatory	Item number type, coded	SA = supplier's article number IN = Logaritme's (buyer's) item number UA = ICS'ultimate (customer's) article number	UA	
Conditional segment, indicates additional product identification codes. Although none are mandatory, it is highly advisable to indicate the internal ICS code, because it may become mandatory. Example: PIA+1+12345A:UA '					

ITEM LINE				
SG25 26 IMD – Item description (mandatory)				
7077	Mandatory	Item description type, coded	F = Free form	F
7081	Conditonal	Item characteristic, coded	M = Goods	M
C273-7008	Mandatory	Item description		bag of 100 syringes
Mandatory segment, indicates in free text the article description. Ejemplo: IMD+F+M+::: bolsa de 100 syringes '				
SG25 27 QTY – Quantity (Mandatory)				
C186-6063	Mandatory	Quantity qualifier	47 = invoiced quantity	47
C186-6060	Mandatory	Quantity (according to previous qualifier)		15
It is necessary to use this segment at least once to indicate the quantity invoiced. Example: QTY+47:15'				
SG26 30 MOA – Monetary Amount: Total Line Value (mandatory)				
C516-5025	Mandatory	Monetary amount type qualifier	66 = Line net amount, without taxes, but with discounts and charges if specified. 98 = Line gross amount, before taxes, charges and discounts.	66
C516-5004	Mandatory	Monetary amount of previous qualifier		135
Mandatory segment indicates the line total net amount. The gross amount must be indicated as well if there are discounts or charges per line. Example: MOA+66:135'				
SG28 31 PRI – Price Details (mandatory)				
C509-5125	Mandatory	Price details qualifier	AAB = Unitary gross price (includes special taxes, excludes allowances, charges and other taxes) AAA = Unitary net price (it includes special taxes, allowances and charges. Excludes other taxes)	AAA
C509-5118	Mandatory	Unit, net or gross price, according to previous qualifier		9
Mandatory segment, indicates the unitary net price. The gross amount must be indicated in case there is an allowance or charge per line. Example: PRI+AAA:9'				

SG33 36 TAX – Duty/Tax/Fee details: Tax details per line (mandatory)					
ITEM LINE	5283	Mandatory	Tax function qualifier	7 = Tax	7
	C241-5153	Mandatory	Tax type, coded	VAT = Value added tax EXT = Tax exemption RE = Equalization tax (SP: Recargo de equivalencia)	VAT
	C243-C278	Mandatory	Valuation of tax (mandatory in cases in which the tax is calculated by means of a percentage)		8
	Mandatory segment, indicates tax or taxes applied to the item line. Example: TAX+7+VAT+++:::8'				
	SG33 37 MOA – (Monetary amount) Tax amount (mandatory)				
C516-5025	Mandatory	Amount type	124 = Tax amount	124	
C516-5004	Mandatory	Tax amount		21.6	
This segment follows the previous TAX segment, indicates the total tax amount applied. Example: MOA+124:21.6'					

SG38 38 ALC – Overall allowance or charge per line (conditional)					
ITEM LINE	5463	Mandatory	Allowance or charge qualifier	A = Allowance C = Charge	A
	1227	Conditonal	Calculation sequence indicator, coded. If not specified, presume 1.	1 = First calculation step. Applied to the total net sum of each line. 2, 3, 4, 5, etc. = apply onto result of the previous calculation step.	1227
	C214-7161	Conditonal	Special services identification, coded – Allowance or charge type	EAB = Early payment allowance TD = Trade discount ABH = Throughput allowance FC = Freight charge PC = Packing charge SH = Special handling service charge IN = Insurance (charge for insurance) CW = Container allowance / returned packing FI = Finance charge ACQ = Royalties RAD = Container charge or Returnable container IS = Invoice services (cost for service) VEJ = Environmental protection tax (SP: <i>Punto verde</i>)	TD
	<p>Conditional segment, used to specify any allowance or charge applicable to an item line that is on course. To indicate an allowance, it is necessary to use this segment consecutively, followed by the two following: PCD to indicate the percentage, and MOA to indicate the total allowance amount. Example: ALC+A+++1+TD'</p>				

SG40 40 PCD – Percentage detail for allowances or charges (conditional)					
ITEM LINE	C501-5245	Mandatory	Percentage qualifier	1 = Allowance 2 = Charge	1
	C501-5482	Mandatory	Percentage		3.5
	This segment is used to specify any sort of allowance percentage applied to the previous ALC segment. Example: PCD+1:3.5'				
	SG19 23 MOA – Allowance or charge amount (conditional)				
SUMMARY SECTION	C516-5025	Mandatory	Monetary amount type qualifier	8 = Allowance or charge amount	8
	C516-5004	Mandatory	Allowances monetary amount		676
	This segment is used to specify the monetary amount, which results from applying the percentage indicated in the previous segment. Example: MOA+8:676'				
	44 UNS – Detail/Summary section identification (mandatory)				
	0081	Mandatory	Section identification	S = Detail/summary section separation	S
Mandatory segment. Example: UNS+S'					

SG48 46 MOA – Invoices total monetary amount (mandatory)					
SUMMARY SECTION	C516-5025	Mandatory	Monetary amount type qualifier	79 = Total line items amount – total net amount 125 = Taxable amount – base 176 = Message total duty/tax/fee amount 139 = Total payment amount 260 = Total allowances – summation of overall allowances 259 = Total charges – summation of overall charges	79
	C516-5004	Mandatory	Monetary amount		135
	This segment is used several times, and in each one, the invoice totals must be indicated. Mandatory to indicate:				
	Total line items net amount (79): a summation of the net amounts of each line.				
	Total base tax (125): total net amount + overall charges – overall allowances				
	Total tax amount (176): Total IVA, IGIC and equivalent surcharges				
	Total payment (139): sum of total base tax + total tax amount				
	Example: MOA+79:135' (total net amount of invoice: 135€)				
	SG50 47 TAX – Total duty/tax/fee details (mandatory)				
	5283	Mandatory	Duty/tax/fee function qualifier	7 = Amount	7
C241-5153	Mandatory	Duty/tax/fee type, coded	VAT = Value added tax EXT = Tax exemption RE = Equalization tax RET = Withholding tax on professional services ENV = Environmental protection tax	VAT	
C243-C278	Mandatory, if tax is applied by means of a percentage.	Tax rate		16	
Mandatory segment, indicates the tax or the total tax on the invoice. A segment of this kind must be indicated for each tax and percentage difference and it must be followed by an MOA segment that indicates the tax amount; another of these segments must indicate the base tax in which it is being applied over.					
Example: TAX+7+VAT+++:::16'					

SG50 48 MOA – (Monetary Amount) Duty/Tax Amount (mandatory)					
SUMMARY	C516-5025	Mandatory	Monetary amount type code qualifier – Tax type	176 = Message total duty/tax/fee amount (Total of all duty/tax/fee amounts.) 125 = Taxable amount (amount on which a tax has to be applied)	176
	C516-5004	Mandatory	Monetary amount –according to previous import qualifier		21.6
	Mandatory: This segment follows the previous TAX segment and it indicates the message total duty/tax/fee amount or taxable amount applied to it, both are mandatory. Example: MOA+176:21.6'				
	49 UNT – Message trailer (mandatory)				
	0074	Mandatory	Number of segments in a message		72
0062	Mandatory	Message reference allocated by the issuer		12345	
Mandatory segment, indicates the end of the message. Example: UNT+72+12345'					

10.3 Example of INVOIC message

UNH+EDV215000+INVOIC:D:93A:UN:EAN007'
BGM+380+12345+9'
DTM+137:20121107:102'
RFF+ON:4420839999'
RFF+DQ:8007700'
RFF+ALO:20121108093530308808'
NAD+MS+8400000000000::9'
NAD+MR+8431299600008::9'
NAD+DP+8431299000020::9'
NAD+BY+8431299600008::9++ICS (Unitat de tramitacio)+Pg Vall d???'Hebron 119-129 (Esc.infe:rmeria 6 plta)+Barcelona++08035'
NAD+IV+8431299600008::9++ICS (Unitat de tramitacio)+Pg Vall d???'Hebron 119-129 (Esc.infe:rmeria 6 plta)+Barcelona++08035'
NAD+SU+8400000000000::9++EMPRESA PROVEEDOR,S.A.+Domicilio+Poblacion++08022'
NAD+BCO+8431299600008::9++ICS (Unitat de tramitacio)+Pg Vall d???'Hebron 119-129 (Esc.infe:rmeria 6 plta)+Barcelona++08035'
RFF+VA:Q5855029D'
NAD+SCO+8400000000000::9++EMPRESA PROVEEDOR,S.A.:RM Barcelona L1 T1 H10+Domicilio+Poblacion++08022'
RFF+VA:A12345678''
CUX+2:EUR:4'
LIN+1++9999999999999:EN'
PIA+1+1111111:SA'
PIA+1+222222:IN'
PIA+1+00000050027890:UA'
IMD+F+M+:::DESCRIPCION DE ARTICULO'
QTY+47:110'
MOA+66:181.19'
PRI+AAA:1.647218'

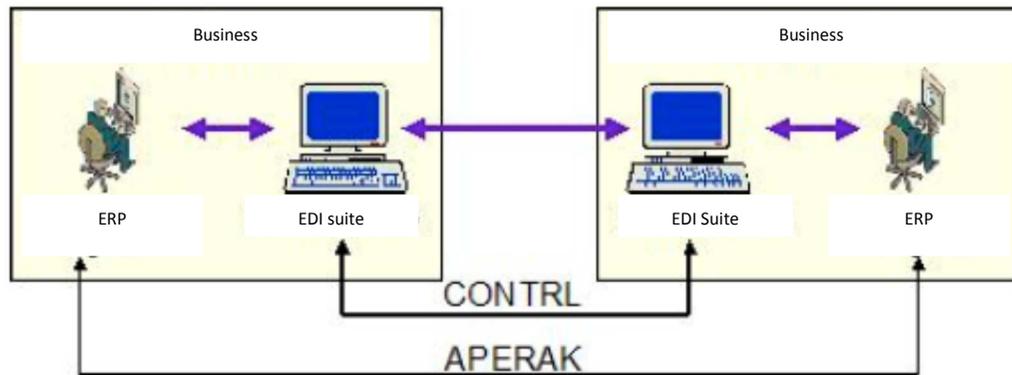
PRI+AAB:1.647218'
TAX+7+VAT+++:::10'
MOA+124:18.12'
UNS+S'
CNT+2:1'
MOA+79:181.19'
MOA+125:181.19'
MOA+139:199.31'
MOA+176:18.12'
TAX+7+VAT+++:::10'
MOA+176:18.12'
MOA+125:181.19'
UNT+41+EDV215000'

11 APERAK (application error and acknowledgement message) sent by ICS to supplier

11.1 APERAK D.01B

When interchanging a document with a commercial business partner, it is received at their EDI terminal, which ensures that the document is syntactically correct. Next, the recipient of the document sends it to the Software Management system, which validates it for data coherency. As a result of this analysis the system sends out a message, APERAK, with its validation outcome.

The following diagram shows how the CONTRL message and the APERAK message are used. The APERAK message must not be generated by the EDI translator, it is to be generated at the destination of application in order to communicate any content errors. On the other hand, the CONTRL message will be sent out from the EDI terminal to communicate any syntax errors.



ICS uses the APERAK message to update suppliers on the status of their invoices. This status update is found in the data element 9321 of segment SG4-ERC. The segment description indicates the name and significance of each possible status. In addition, the segment SG4-FTX will express a brief error description (if one exists), in free text.

Once the invoice is received, ICS starts the validation procedure. If the outcome is positive, an APERAK with the status “ACCEPTED” is sent to the provider within 24 hours of its receipt. If ICS detects an error in the invoice, an APERAK with the status “ERROR” or “REJECTED” is sent out.

If the auto-validation process detects any anomaly which requires a manual validation, the APERAK confirmation or error status update may take more than 24 hours to be sent out.

Message function (C002-1225)	Status code (C901-9321)	Status description
6 = Confirmation	SENT	The invoice has arrived to ICS system.
	REGISTER or DELIVERE	The invoice has successfully passed the first validation process.
	ACCEPTED	The invoice has been accepted by ICS.
27 = Not accepted	ERROR or REJECTED	The invoice has been rejected by ICS. It is considered incorrect.

11.2 APERAK message structure

	Elemento	Estado	Descripción	Valores posibles	Ejemplo
APERAK HEADER	1 UNH – Message Header (mandatory)				
	0062	Mandatory	Message reference number allocated by the issuer		12345
	S009-0065	Mandatory	Message type	APERAK	APERAK
	S009-0052	Mandatory	Message version number	D	D
	S009-0054	Mandatory	Message release number	01B	01B
	S009-0051	Mandatory	Controlling agency, coded	UN	UN
	S009-0057	Mandatory	Association assigned code	EAN003	EAN003
	Mandatory segment, in all the cases Example: UNH+12345+APERAK:D:01B:UN:EAN003'				
	2 BGM – (Beginning of message) document number (mandatory)				
	C002-1001	Mandatory	Document name code	305= Application error and acknowledgement	305
C106-1004	Mandatory	APERAK document identifier allocated by the issuer of the document		123	
C002-1225	Conditonal	Message function code	6 = Confirmation: confirms that the original message has been received and processed successfully	6	
			27 = Not accepted: the original message has generated an error		
Mandatory segment, in all the cases Example: BGM+305 +123+6'					

3 DTM – Date/Time/Period (mandatory)				
C507-2005	Mandatory	Date or time or period function code qualifier	137 = APERAK document/message date/time	137
C507-2380	Mandatory	Date or time or period value		200903011534
C507-2379	Mandatory	Date or time or period format code	203 = CCYYMMDDHHMM	203
Mandatory segment, indicates the date of the APERAK document. Example: DTM+137:200903011534:203'				
SG2 4 RFF - Reference to other documents (mandatory)				
C506-1153	Mandatory	Reference code qualifier	IV = Invoice number	IV
C506-1154	Mandatory	Reference identifier		567
Mandatory, this segment indicates the invoice number referenced for the status update in the APERAK document. Example: RFF+IV:567' (referenced invoice APERAK is number 567).				
SG2 5 DTM – Date/Time/Period (mandatory)				
C507-2005	Mandatory	Date or time or period function code qualifier	171 = INVOIC document date	171
C507-2380	Mandatory	Date or time or period value		20090301
C507-2379	Mandatory	Date or time or period format code	102 = CCYYMMDD	102
Conditional segment, used to specify the date of the INVOIC document. Example: DTM+171:20090301:102'				
SG3 6 NAD - Name and address of parties involved in document (mandatory)				
3035	Mandatory	Party function code qualifier	MS = APERAK document/message issuer/sender MR = APERAK message recipient	MS
C082-3039	Mandatory in all cases	Party identifier (GLN, Global Location Number), in EAN-13 format.		8431299100003
C082-3055	Mandatory	Code list responsible agency code, coded	9 = EAN	9
This segment is used twice, once for the issuer of the message and once for the recipient. Example: NAD+MS+8431299100003::9'				

APERAK HEADER

SG4 7 ERC – Application error information (mandatory)					
DETAIL SECTION	C901-9321	Mandatory	Application error code	SENT = Sent to ICS REGISTER or DELIVERE = Registered in ICS system, pending validation REJECTED or ERROR = Rejected ACCEPTED = Accepted	ACCEPTED
	C901-1131	Mandatory	Code list identification code	ZZZ = Mutually defined	ZZZ
	C901-3055	Mandatory	Code list responsible agency code	92 = Assigned by buyer or buyer's agent	92
	Mandatory segment, indicates the status of the original invoice document- Example: ERC+ACCEPTED:ZZZ:92'				
SG4 8 FTX – Free Text details (mandatory)					
DETAIL SECTION	4451	Mandatory	Text subject code qualifier	AAO = Error description (free text) – status description	AAO
	4453	Mandatory	Free text function code	1 = Text for subsequent use	1
	C107-4441	Mandatory	Free text value code		1
	C108-4440	Mandatory	Free text value explaining error		Importe total erróneo
	If there is error, this segment would be used to indicate its error code and description. Example: FTX+AAO+1+1+Importe total erróneo'				
11 UNT – Message trailer (mandatory)					
SUMMARY	0074	Mandatory	Number of segments in a message		9
	0062	Mandatory	Message reference number allocated by the issuer		12345
Mandatory segment, indicates the end of the message. Example: UNT+9+12345'					

11.3 Example of APERAK message

APERAK message rejected

UNH+1+APERAK:D:01B:UN:EAN003'
BGM+305+EDV215000+27'
DTM+137:201211081350:203'
RFF+IV:12345'
DTM+171:20121026:102'
NAD+MS+8433561008000::9'
NAD+MR+8400000000000::9'
ERC+REJECTED:ZZZ:92'
FTX+AAO+1+--+FACTURA DUPLICADA'
UNT+10+1'

APERAK message accepted

UNH+1+APERAK:D:01B:UN:EAN003'
BGM+305+EDV215000+6'
DTM+137:201211081350:203'
RFF+IV:12345'
DTM+171:20121026:102'
NAD+MS+8433561008000::9'
NAD+MR+8400000000000::9'
ERC+ACCEPTED:ZZZ:92'
FTX+AAO+1+--+OK'
UNT+10+1'

12 Document versions

Version 1.a, published 4/19/2010.

Add in – “Modifications in the purchase order lines” in paragraph 7.1 (ORDRSP D.96A) to clarify procedures of actions for discrepancies indicated in purchase order response messages.

Version 1.b, published 5/19/2010.

In the purchase order response (ORDRSP):

- Modification: eliminates the 'mandatory' status of having to indicate the issuer of the document (NAD+MS) and the recipient of the document (NAD+MR).
- Modification: eliminates the function of message 12 (not processed), defined in segment BGM. ORDRSP messages that are received with this function should be ignored.
- Modification: In segment LIN, the action request code 1 is eliminated (add-in), since it is not possible to add line items that did not originate from the purchase order.
- Modification: The segment MOA of the summary section, used to indicate the monetary amount of the purchase order including taxes is amended to optional status.
- Add-in: More clarifications are added over the use of the detail section. In Chapter 7.1, Section 4.b, the mandatory status for segments that modify a purchase order line item are explained further. In Chapter 7.2, there is further clarification regarding whether a line item segment is mandatory or not mandatory.

Version 1.c, published 5/25/2010.

This version gives further instructions about how to generate a purchase order response (Chapter 7.1), in regards to:

- How to indicate different dates of delivery for a line item
- How to correctly indicate differences in quantity

Version 1.d, published 5/27/2010.

Add-ins regarding information over the terms of delivery for a purchase order response (Chapter 7.1, terms of delivery to a purchase order response message).

Version 1.e, published 6/22/2010.

A table detailing the administrative structure is added (explaining the relationship between the different parts of the ICS), in Chapter 5.

Version 1.f, published 7/27/2010.

There are diverse modifications regarding the mandatory status of some segments and fields, in order to adapt to the AECOC Helath Sector Guide.

- QVR segment's status for RECADV switches from mandatory to conditional.
- The RFF segments used to indicate the NIF in message DESADV and RECADV are removed.

Version 1.g, published 10/25/2010

Segments in the dispatch advice messages that are relevant to the monetary valuation of delivery notes are removed from the header and detail section; data is not required by Logaritme.

Version 1.h, published 11/2/2010

An updated list of Global Location Number and Logistical points.

Version 1.i, published 11/16/2010

The logistical structure diagram is removed. There is no assurance as to a reliable manner in displaying the operational point of the buyer, delivery point, and invoice receiving receptors, and has therefore been removed.

Version 1.j, published 1/4/2011

Clarifications are added on the use of some fields in the header section of the Dispatch Advice Message (DESADV) in Chapter 8.1.

Version 1.k, published 1/26/2011

Clarifications are added on the use of good's identification number from RECADV (Chapter 9.1).

Version 1.l, published 2/28/2011

- Under purchase order (ORDERS):
 - The qualifier "DQ" is added to segment RFF to indicate the delivery note number for cases of consignment.
 - The segment ALI is added to indicate consignment type (i.e. replenishment, re-stocking)
 - The segment PIA is added to the qualifier "UA" to indicate the ultimate customer's article number for ICS.
- Within Dispatch Advice (DESADV):
 - The qualifier indicating the date (DTM) of manufacture in segment 37 is removed. Logaritme does not require it.
- In Receiving Advice Message (RECADV):
 - The qualifier, indicating the actual quantity received by the buyer, is removed. Logaritme will not send this information (SG22 12 QTY).
 - The qualifiers used in segment QVRLIN are updated to indicate only those that Logaritme will use.

Version 1.m, published 3/28/2011

- Version certified by AECOC (GS1 Spain).

Version 2.0, published 1/11/2012

- Instructions for the invoice document are added.

Version 2.a, published 2/13/2012

- Modification: eliminates the 'mandatory' status of having to indicate the RECADV number in the INVOIC message.
- New GLN 8431299000037 is added to the GLN list and the logistical structure diagram.

Version 2.b, published 2/23/2012

- The qualifiers “X37” and “X38” are added to segment QVR from RECADV message, to indicate discrepancies in lot number and expiry date.

Version 2.c, published 5/2/2012

- Hospital Verge de la Cinta is added to the Logical Structure.
- The “DELIVERE” status code is added to APERAK message.

Version 2.d, published 16/5/2012

- A status description table is added to the APERAK document.

Version 2.e, published 5/11/2012

- Added the ‘98’ qualifier to the MOA segment of the detail line of the invoice, to show the total price of the line before discounts and/or charges.

Version 2.f, published 8/11/2012

- Added an invoice example (chapter 10.3)
- Added two APERAK examples (chapter 11.3)
- Added the DTM segment (SG2 5) to the APERAK message, to indicate the invoice’s date.

Version 2.g published 23/08/2013.

- Modified the address of the Banc de Sang i Teixits (chapter 5)

Version 3.f published 2/10/2013.

- The qualifier “29” is added to segment BGM from RECADV message, to indicate the referenced DESADV has been accepted without corrections

Version 3.f.1, published 21/1/2014

- Agrupació Europea De Cooperació Territorial - Hospital de Cerdanya is added to the Logical Structure.

Version 3.f.2, published 8/4/2014

- Institut de Diagnòstic per la Imatge is added to the Logical Structure.

Version 3.g, published 8/10/2014

Changes from 15 December 2014.

- ORDERS:
 - The qualifier “49E” and the date format “804” are added to segment DTM of the detail line, to show the minimum shelf life remaining at time of receipt.
- RECADV:
 - The qualifier r “BY” is added to segment NAD to show the buyer.

Version 3.h, published 22/12/2016

Changes from January 2nd 2017.

- ORDERS:
 - Added two segments DTM (qualifiers 64 and 63) to inform the scheduled time for deliveries (first time/last time)
 - Added qualifier “203” to DTM (63/64), supporting the format “CCYMMDDHHMM” (adding Hour and Minutes)
 - This information for deliveries time will be also included as comments at FTX segment

Version 3.i, published 01/05/2017

- A new warehouse, Coral Transports & Stocks, is added to the administrative structure, only for specific product deliveries.

Version 3.j, published 12/12/2017

Changes from January 1st of 2018: with the aim of improving the information about the prices in the orders, Logaritme will send the information of net prices in the articles and the tax to apply.

- ORDERS (order):
 - The qualifier "203" is added to the line MOA segment to indicate the total net amount of the line.
 - The "NTP" qualifier is replaced by the "AAA" in PRI segment to indicate the net price of the item.
 - Segment group SG34 TAX-MOA is added to indicate the information related to the taxes to be applied at the line level.
 - Qualifier "79" is added to the MOA segment of the summary to indicate the net total of lines or net total before taxes.
- ORDRSP (Response to the order):
 - The qualifier "203" is added to the line MOA segment to indicate the total net amount of the line.
 - The "NTP" qualifier is replaced by the "AAA" in the line PRI segment to indicate the net price of the item.